# BUBT

BANGLADESH UNIVERSITY OF
BUSINESS AND TECHNOLOGY

# ASSIGNMENT

Assignment No - 02

Course NO: CSE 122

Course Name: Object Oriented Programming
Language Lab

Submission Date: 10-04-2023

## Submitted To

Name: Khan Md. Hasib

Assistant Professor

Department of Computer Science & Engineering

## Submitted By

Name: Md. Maharab Hosen

ID:22234103222    INATKE:50        SECTION:06

<u>**Marks – 10**</u>

| CO | Question |
|---|---|
| **CO2** | Imagine a publishing company that markets both book and audiocassette versions of its works. Create a class publication that stores the title (a string) and price (type float) of a publication. From this class derive two classes: book, which adds a page count (type int), and tape, which adds a playing time in minutes (type float). Each of these three classes should have a getData() function to get its data from the user at the keyboard, and a putData() function to display its data. |
| | Write a main program to test the book and tape classes by creating instances of them, asking the user to fill in data with getData(), and then displaying the data with putData(). |

# Assignment No - 02

```cpp
#include<iostream>
#include<string>
using namespace std;
class publication
{
    protected:
    string title;
    float price;
    public:
      publication() {
        title=" ";
        price=0.0;
        }
        publication(string t,float p)
        {
         title=t;
         price=p;
        }
    public:
void getdata() {
 cout<<"Enter title of publication: ";
 cin>>title;
 cout<<"Enter price of publication: ";
 cin>>price;
  }
 void putdata(void) {
    cout<<"Publication titles :"<<title<<endl;
    cout<<"Publication price :"<<price<<endl;
 }
};
    class book : public publication
    {
        int pagecount;
        public:
        book()
        {
            pagecount=0;

        }
        book(string t,float p,int pc):publication(t,p)
        {
            pagecount=pc;

        }
        void getdata(void) {
        publication::getdata();
        cout <<"Enter Book Page Count :";
        cin>> pagecount;
```

```cpp
        }

        void putdata(void) {
        publication::putdata();
        cout<< "Book page count:"<<pagecount <<endl;
        }
    };
    class CD: public publication
    {
        float time1;
        public:
        CD()
        {
            time1=0.0;
        }
        CD(string t, float p, float tim):publication(t,p)
        {
            time1=tim;
        }
        void getdata(void)
        {
        publication::getdata();
        cout <<"Enter tape's playing time:";
        cin>> time1;
        }
        void putdata(void)
        {
         publication::putdata();
         cout<<" Tape's playing time :"<< time1<<endl;
        }
    };
int main(){
    cout<<endl<<"Book data"<<endl;
    book b("C++",230,300);
    b.putdata();
    cout<<endl<<"CD Data"<<endl;
    CD c("C++",100,120.5);
    c.putdata();
    cout<<"\n Enter New Details Of Book :\n";
    b.getdata();
    c.getdata();
    cout<<"\n\n Book data entered by user:\n";
    b.putdata();
    c.putdata();
    return 0;
}
```